SOIL SURVEY

ON

OCT #1 AND OCT #2 M.C.

MAP 93A/11W

LONGITUDE 121° 25' W

LATITUDE 52° 35° N

FOR

EGIL H. LORNTZSEN

## GEOLOGICAL BRANCH ASSESSMENT REPORT

# 10,763

BY:

CELTIC THREE MINERALS LTD.

AN D

LIVGARD CONSULTANTS LTD.

NOVEMBER 4, 1982

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IN THE POCKET: Soil Survey Copper Soil Survey Lead

## INTRODUCTION

A soil survey was carried out under the writer's supervision on part of OCT #1 and OCT #2 mineral claims during the last two weeks of September, 1982 at the request of the owner of the claims, Mr. E. H. Lorntzsen.

The objective of the survey was to locate potential gold mineralization using copper and lead trace minerals with which the gold in the area is associated.

### SUMMARY

The property consists of three claims and a total of 56 units located 10 miles east of Likely, B.C., north and south of Spanish Lake. The claims cover argillites which occasionally contain quartz and pyrite with gold values.

A grid system was established by flagging lines running 295° Azim and 115° Azim perpendicular to a baseline previously established, running S25°W. The soil horizon was poor due to excessive rubble. The soil samples were analyzed for copper and lead as trace elements.

No anomalous conditions were detected.

#### PROPERTY

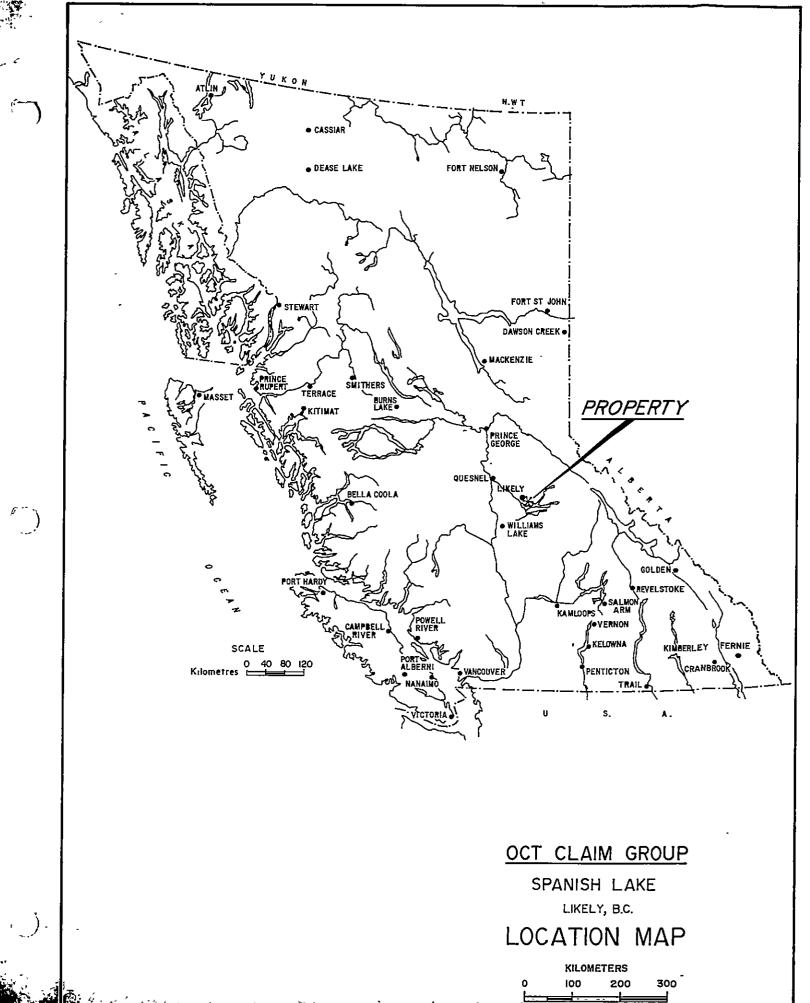
The property consists of three claims named OCT #1 Rec. No. 2071 (10) with 16 units, OCT #2 Rec. No. 2072 (10) with 20 units, and OCT #3 Rec. No. 2073 (10) with 20 units.

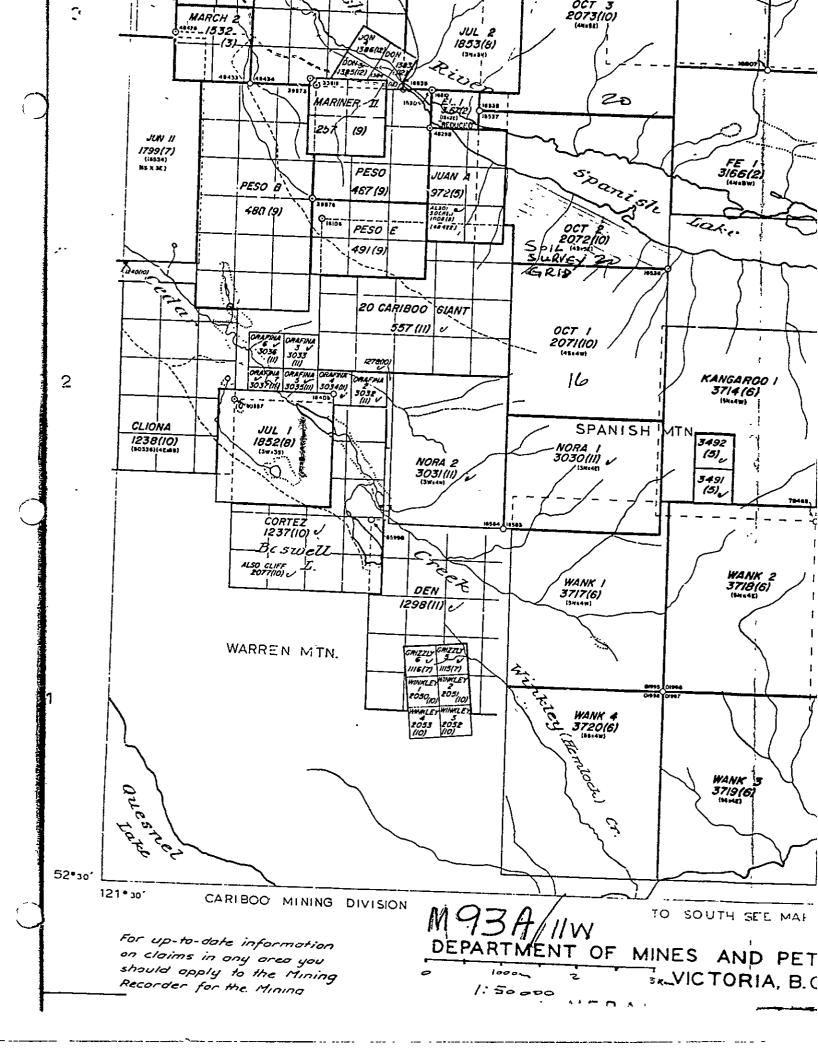
The claims are contiguous and cover hillsides on both the north and south sides of Spanish Lake.

The claims are owned by Egil H. Lorntzsen.

## LOCATION AND ACCESS

The property lies about 10 km east and south of Likely, B.C. A logging road goes from Likely and along the hillside south of Spanish Lake crossing the claims. Another road extends from the logging road down to Spanish Lake. The North part of the claims (mainly OCT #3), which was not surveyed, can be reached from the end of a road at the west end of Spanish Lake through very dense bush over one to four km or by boat across Spanish Lake.





### TOPOGRAPHY AND CLIMATE

The north and south hillsides from Spanish Lake are of moderate slope. The area has relatively high precipitation of about 750 mm, of which 1,880 mm is snow.

Because of the high precipitation, the growth is heavy, causing hard working conditions.

## GEOLOGY

The claim area covers argillites and phyllites with minor quartzite of Upper Triassic age.

The rocks strike north westerly and dip NE and SW. An anticlinal structure is probable on the northern part of the claims.

Quartz veins containing galena and tetrahedrite have been noted.

#### SOIL SURVEY

## Grid System

A grid system was established using a suunto compass and "hip chain". The baseline was started close to the centre of claim OCT #2 about 150 m south of Spanish Lake. The baseline extended 500 m in S 25° W direction.

The survey lines run at right angle to the base line in N 65° W direction named NW and S 65° E direction named SE.

The first five lines are spaced 50 m apart and the next three lines 100 m apart. The lines are marked with red flagging.

The stations were marked every 50 m with two colours of flagging and the station number marked on the flagging.

## Soil Sampling

A weak soil horizon was noted. The soil horizon was frequently disrupted by a large amount of rubble. The rubble was of local origin - apparently from relatively rapid soil creep. It was often difficult to get sufficient fine material for a sample.

## Soil Sampling (cont)

The B horizon was sampled when it could be recognized, otherwise the sample was taken about four inches below the organic layer.

A sample was taken at each station 50 m apart. The samples were placed in a kraft sample bag and the bag marked with the station number.

## Sample Analysis

The samples were analyzed by general testing laboratories. The samples were dried and screened to minus 80 mesh. A one gram sample was taken. The samples were leached with aqua regia 10 mill nitric and five mill hydrochloric almost to dryness and re-disolved using 5% 20 mill hydrochloric acid. Analysis was made using atomic absorption spectro photometer.

## ANOMALOUS CONDITIONS

Frequency histograms show symetric normal curves for both copper and lead, indicating no anomalous conditions.

Examination of the map of plotted copper values show a few high copper values clustered in two areas - on lines 100 SW, 150 SW and 200 SW from 550 NW to 950 NW and also on lines 400 SW and 500 SW from 200 SE to 350 SE.

These two areas will be further examined by running the soils samples here for gold.

Respectfully submitted

Livgard Consultant's Ltd./ E. Livgard, BSc., P. Eng.

## STATEMENT OF QUALIFICATIONS OF SURVEY PERSONNEL

Dag Livgard

4th year UBC student. Mineral exploration experience: Four summer seasons of Grid-systems, soil surveys and geological helper with Livgard Consultants Ltd. One season - last year on two large magnetic surveys.

Bryan Livgard

2nd year UBC student in geology. Mineral exploration experience: Two seasons with Rio Algom Regional Exploration, soil surveys and claim staking in the Rocky Mtn. Trench. Two seasons with Livgard Consultants Ltd. doing grids and soil surveys. One season — last year, on two large magnetic surveys.

Paul Livgard

Two seasons of grid and soil survey helper.

Nat Lemmon

No experience

## COST DECLARATION

Survey Contract by Celtic Three Minerals Ltd.

14.7 km @ \$200.00	\$ 2,940.00
Analysis for Cu and Pb	925.00
Report and Supervision - 3 Days @ \$240.00	720.00
All expenses	240.00
	\$ 4,825.00

Egil Livgard, BCs, P. Eng.

A Division of SGS Supervision Services Inc.



LIVGARD CONSULTANTS LTD. 1990 King Albert Coquitlam, B.C. **▼3J 1Z2** 

1001 EAST PENDER ST., VANCOUVER, B.C., CANADA, V8A 1W2 PHONE (604) 254-1647 TELEX 04-507514 CABLE SUPERVISE

**CERTIFICATE OF ASSAY** 

No.: 8209-0950 Sept. 22/82 DATE:

We hereby certify that the following are the results of assays on:

TO:

Soil samples

MARKED	Copper	Lead	Sample Marked	Copper	Lead	
MANIVED	Cu (ppm)	Pb (ppm)	Detra ea	Cu (ppm)	Pb (ppm)	
BL 0+00 SW	272	13 <i>U</i>	0+50 SW			
0+00 SW			3+00 NW	65 -	13:~	
0+50 NW			3+50	211	16 レ	
1+00	25 ~	94	4+00	41 L	132	
1+50	182	8~	4+50	73~	15 –	
2+00	542	17レ	5+00	714	10 -	
2+50	412	76	5+50	81 ~	75	
	261	34/	6+00	88 v	18レ	
3+00	1600	12 🗠	6+50	24~	7 z	
3+50	25	84	7+00	34~	7 4	
4+00	244	7-	7+50	47~	8 🛦	
4+50	12~	7~	8+00	82~	11 0	
5+00	25~	10v	8+50	22~	7 4	
5+50	474	110	9+00	802	ے 16	
6+00	36~	152	9+50	35∠	9 ~	
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9+00	149~	18 -	0+50 SE	28-	7.	
9+50	562	16 4	1+00	22~	7 <del>5</del> 8 5	
10+00	45-	86	1+50	26-	10 >	
			2+00		10 0	
0+50 SE	23~	70		464		
1+00	17-	5レ	2+50	25~	15 <i>2</i> 11~	
1+50	560	30レ	3+00	42-		
2+00	. 32~	13レ	3+50	27,	112	
2+50	84~	26 V	4+00	25-	10 b	
3+00	69\(\nu\)	28 レ	4+50	54~	10 *	
			5+00	32-	8 6	
0+50 SW			5+50	49 -	11 ~	
0+50 NW	1.0.	1011	6+00	69 0	15 ~	
1+00	40-	10レ	6+50	962	22 V	
1+50	35	132	7+00	65 v	152.	
2+00	522	10 2				
2+50	49~	100				
2+30	772	10 <sup>2</sup>	/ 0	ned on page	. ^	

NOTE REJECTS RETAINED ONE MONTH PULPS RETAINED THREE MONTHS ON REQUEST PULPS AND REJECTS WILL BE STORE FOR A MAXIMUM OF ONE YEAR

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P. Buschlen, Chemist

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TO.
LIVGARD CONSULTANTS LTD.

••••• page 2 •••••

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	<b>3000000000000</b>	T _			<del>  Sample  </del>	T	
MARKED		Copper	Lead	XXX	Marked:	Copper	Lead
		Cu (ppm)	Pb (ppm)	· · · · ·		Cu (ppm)	Pb (ppm)
0+50 SW					100 SW		
7+50 SE		66~	160		400 SE	43 L	13 <i>~</i>
8+00		79 v	11~		450	21-	72
8+50		36∨	100		500	25~	6 ~
9+00		51~	15 V		550	44~	8 ~
9+50		31 -	10 ~		600	51 🗸	10 ۷
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					700	48~	7 v
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0+50 NW		49v 25v	13v 8v		850	53~	112
100	[		112		900	100 ~	20 L
150		53~ 50 <i>~</i>	130		950	47~	13 v
200		101 ~	11~		1000	100 ~	16レ
250		67~	152			1	
300		891	116		150 SW		
350		25	102			li	
400			15°		BL	424	8i
450		59v 42v	150		50 NW	262	8 د
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		118	13-		150	85 ~	15 <i>u</i>
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~ 600		59ı	102		250	65 ~	10 L
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√ 700		52v	8~		350	72 ~	8 ~
V 750		1651	6~		<b>400</b>	740	8 ~
800 850		22~	7~	-	450	594	10 V
		24-	7レ		500	59~	13~
900		70v	82		550	81~	112
950 1000		582	16~	V	600	114~	181
1000		76v	11~	レ	650	24	7 ~
50 SE		582	112	V	700	66 ~	7 ~
				ν	750	262	22 ~
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200		46 ~	11-				
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300		133 ~	33 ~		/ Contin	ned on pag	e > • • •
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P. Buschlen, Chemist

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## **CERTIFICATE OF ASSA**

No.: 8209-0950

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••••• page 3 ••••••

We hereby certify that the following are the results of assays on:

TO:

Soil samples

		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		Tood		Sample	0	Tood
	MARKED		Copper	Lead	XXX	Marked:	Copper	Lead
			Cu (ppm)	Pb (ppm)			Cu (ppm)	Pb (ppm)
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	450		422	15レ		200	37 -	10~
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	850		182	8~		600	57L	10-
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	950		546	10~		700	60	13 v
	1000		482	8~		750	45-	11 ~
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P. Buschlen, Chemist

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page 4 .....

**CERTIFICATE OF ASSAY** 

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Soil samples

	XIEONEXXXIII	Copper	Lead	~~~	Sample Marked:	Copper	Lead
MARKED		Cu (ppm)	Pb (ppm)	XXX	Marked:	Cu (ppm)	
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450		25~	8:-		650	62L	13 ~
500		52-	111		700	574	150
550		572	112		750	110 -	
600		372	182		800	32-	20 L 102
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P. Buschlen, Chemist 12 0 10 11 11 10 10 F. 39 TO 48 4. C

# General Testing Laboratories A Division of SGS Supervision Services Inc.

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page 5 .....

**CERTIFICATE OF ASSAY** 

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DATE: Sept. 22/82

We hereby certify that the following are the results of assays on:

Soil samples

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P. Buschlen, Chemist

Analytical and Consulting Chemists, Bulk Cargo Specialists, Surveyors, Inspectors, Samplers, Weighers

MEMBER, American Society For Testing Materials • The American Oil Chemists Society • Canadian Testing Association REFEREE AND OR OFFICIAL CHEMISTS FOR National Institute of Oilseed Products • The American Oil Chemists' Society
OFFICIAL WEIGHMASTERS FOR Vancouver Board Of Trade

### LIVGARD CONSULTANTS LTD.

## VANCOUVER, B.C.

## CERTIFICATE

I, Egil Livgard, of 1990 King Albert Avenue, Coquitlam, British Columbia, do hereby certify that:

- 1) I am a consulting geological engineer.
- I am a graduate of the University of British Columbia, B. Sc., 1960, Geological Sciences.
- I am a member of the Association of Professional Engineers of the Province of British Columbia.
- From 1960 to 1970 I was engaged in mining and exploration geology in Canada and Norway for various companies, and since that time I have been a consultant to the Mining Industry in B. C.
- My report is based on a personal examination of the property and on information compiled on the area, and other material as referred to in the report.
- 6) I have no direct or indirect interest in the property described herein.

DATED at Vancouver, British Columbia, this 16th day of November 1982.

EGALLIVGARD, B.Sc., F. Eng.

VANCOUVER, B.C.

SPANISHLAKE 5 + 00 sw 139 . 139 . 139 . 130 . OCT No. 2 (2072) OCT No. 1 (2071)

GEOLOGICAL BRANCH ASSESSMENT REPORT

OCT CLAIM GROUP

SPANISH LAKE

LIKELY, B.C.

GEOCHEMICAL SURVEY

COPPER IN PPM

LIVGARD CONSULTANTS LTD.

NOV., 1982

SPANISH LAKE OCT No. 2 (2072) OCT No. 1 (2071)

GEOLOGICAL BRANCH ASSESSMENT REPORT

# OCT CLAIM GROUP

SPANISH LAKE

GEOCHEMICAL SURVEY

LEAD IN PPM

LIVGARD CONSULTANTS LTD.

NOV.,1982